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[KV 806] **Sub. Code: 3806**

DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION
(Regulations 2008 - 2009)
(Candidates admitted from 2008-2009 onwards)
FIRST YEAR
Paper VI – REMEDIAL MATHEMATICS
Q.P. Code : 383806

Time : Three hours **Maximum : 70 marks**

Answer All questions

I. Essay Questions : **(2X 20 = 40)**

1. a) Define matrix,
Given A= $\begin{pmatrix} 1 & 2 \\ 2 & 1 \end{pmatrix}$ B= $\begin{pmatrix} 2 & 1 \\ 2 & 4 \end{pmatrix}$ C= $\begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix}$

b) Define Lelbnitz's linear differential equation and solve

$$X \log X \frac{DY}{DX} + Y = 2 \log X$$

$$\frac{DX}{DX} \quad X+Y-2$$

2. Find the differential coefficients of the following function.

a) $\frac{X + \sin X}{X + \cos X}$ b) $\sin^{m} ax \cos^{n} \beta x$

II. Write Short Notes : **(6 X 5 = 30)**

1. Define column matrix, determinants and multiplication of two matrices.

2. Find the equation of two straight lines through (1-1) inclined at 45° at the line 2X-5X+7=0

3. Differentiate the function 6X-4Y=12, to obtain DY/DX.

4. $\lim_{X \to 1} \frac{L+ 5X^2-4}{3X^2+1}$

5. What is fundamental formulae of integration and evaluate the integral

$$\int_{a}^{b} \frac{\log x}{X} dx = ?$$

6. Draw graph of function $Y= ax^2 + bx + c$, where a, b and c are costants and $a \neq o$.

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